

Motorcyclist Fatalities: an Update

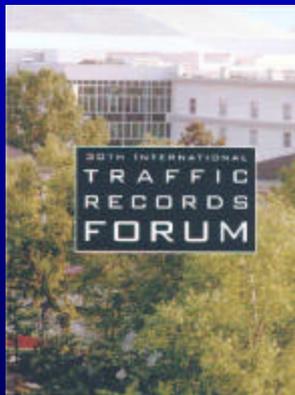
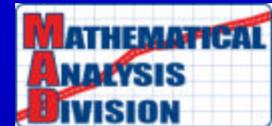
Based on
The Fatality Analysis Reporting System (FARS)

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30th International Traffic Records Forum
Nashville, TN
July 26, 2004

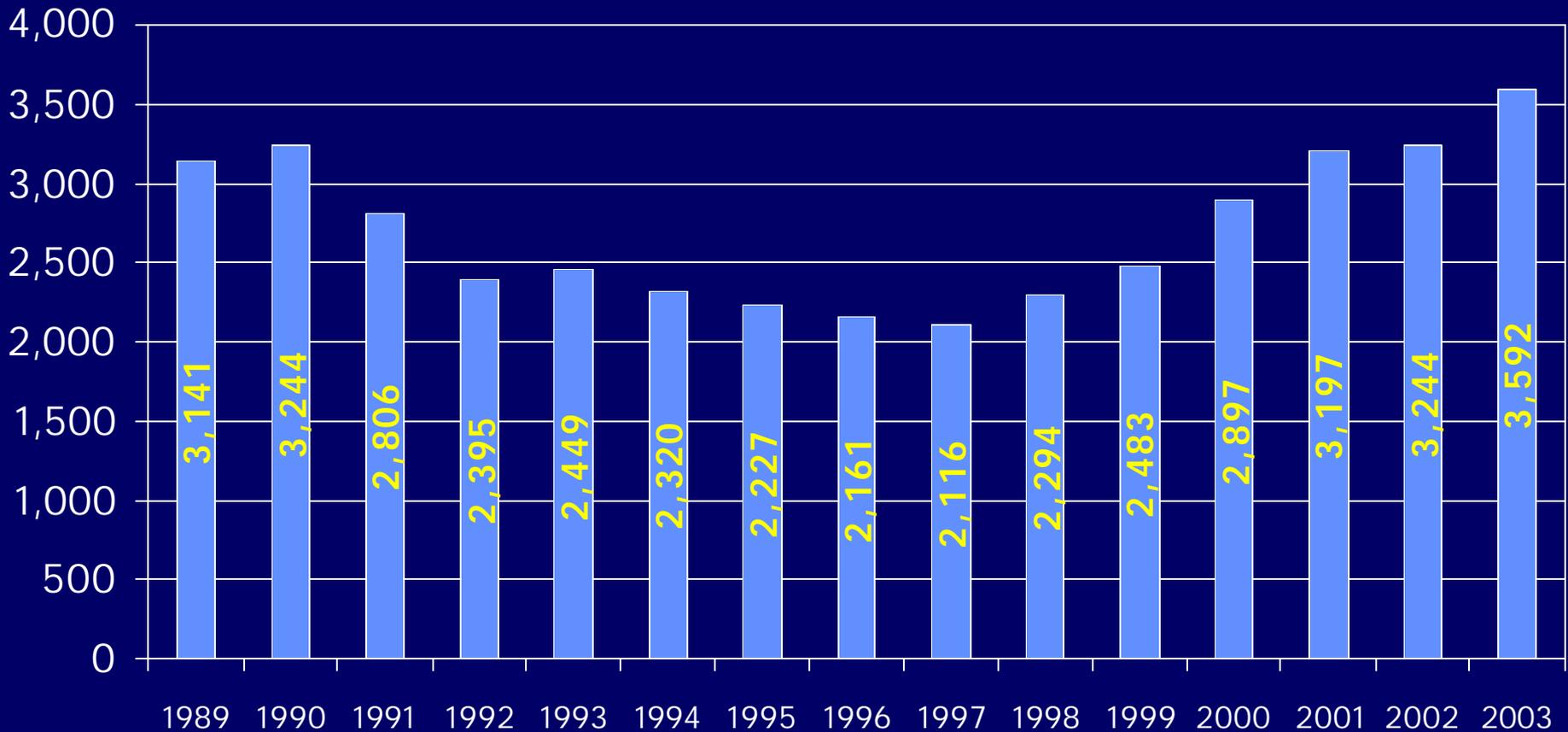
- **Crash Data**
 - ◆ **Fatality Analysis Reporting System (FARS)**
 - **2001 (and prior years) Final File**
 - **2002 Annual Report File**
 - **2003 Early Assessment File**
- **Exposure Data**
 - ◆ **Registered Vehicles and Vehicle Miles Traveled (VMT)**
 - **Based on R.L.Polk and FHWA Registered Vehicles**
 - **FHWA VMT**

➤ **Motorcyclist Fatalities**

*Increased 6th Year in a Row
Compared to 1997 An increase of
70% -- 1,476 more Fatalities*

Motorcyclists Killed in 2003 - highest since 1989

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Source: FARS

- **Motorcycle rider fatalities and Motorcycle registrations have both been on the rise since 1997**
- **In most of these years the rate of increase of Motorcycle rider fatalities has been higher than the rate of increase in Motorcycle registrations.**

Motorcycle Riders Killed and Injured, by Year, 1997-2003

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| | Year | | | | | | |
|----------------------------------|--------|--------|--------|--------|--------|--------|--------|
| | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 |
| Total Killed | 42,013 | 41,501 | 41,717 | 41,945 | 42,196 | 42,815 | 43,220 |
| Change | --- | -512 | +216 | +228 | +251 | +619 | +405 |
| Motorcyclists Killed | 2,116 | 2,294 | 2,483 | 2,897 | 3,197 | 3,244 | 3,592 |
| Change | --- | +178 | +189 | +414 | +300 | +47 | +348 |
| %Change | --- | 8.4% | 8.2% | 16.7% | 9.4% | 1.4% | 10.7% |
| Percent of all Fatalities | 5.0% | 5.5% | 6.0% | 6.9% | 7.6% | 7.6% | 8.3% |
| Motorcyclists Injured | 53,000 | 49,000 | 50,000 | 58,000 | 60,000 | 65,000 | 64,000 |

Source: FARS

- **Motorcycle rider fatalities increased in all age groups**

But . . .

the largest increase in number was in the 50 and over age group

Number of Motorcycle Riders Killed, by Age Group

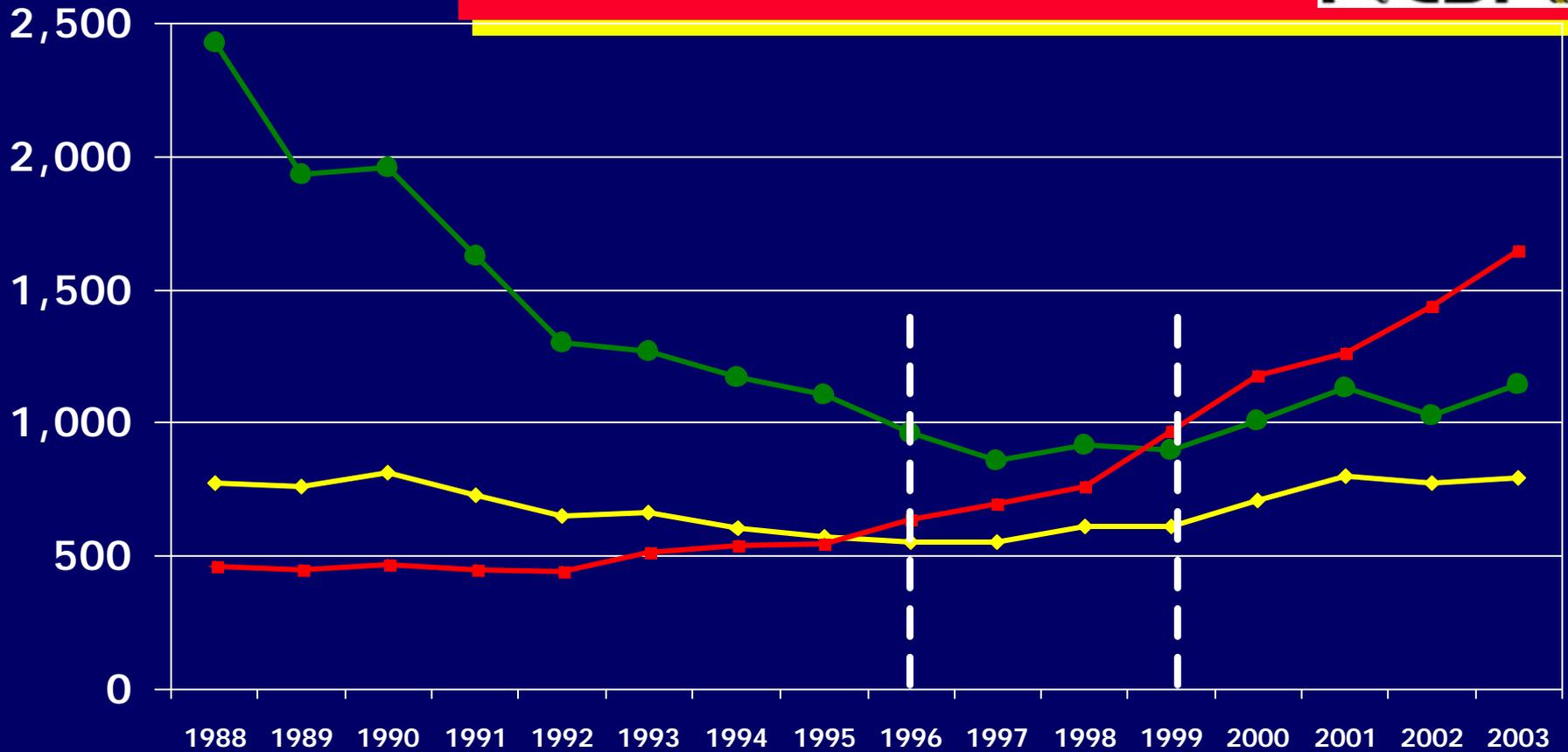
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| Age Group | Year | | Change | % Change |
|--------------|--------------|--------------|-------------|-------------|
| | 2002 | 2003 | | |
| Under 20 | 172 | 208 | +36 | +21% |
| 20 - 29 | 857 | 939 | +82 | +10% |
| 30 - 39 | 776 | 793 | +17 | +2.1% |
| 40 - 49 | 764 | 854 | +90 | +12% |
| 50 & Over | 672 | 795 | +123 | +18% |
| Unknown | 3 | 3 | 0 | 0% |
| Total | 3,244 | 3,592 | +348 | +11% |

Motorcyclists Killed, by Age Group, by Year

National Center for Statistics & Analysis



● Ages < 30
 ◆ Ages 30 - 39
 ■ Ages 40 and over

Source: FARS

Motorcycle Rider Fatality Rates, by Year, 1997-2002

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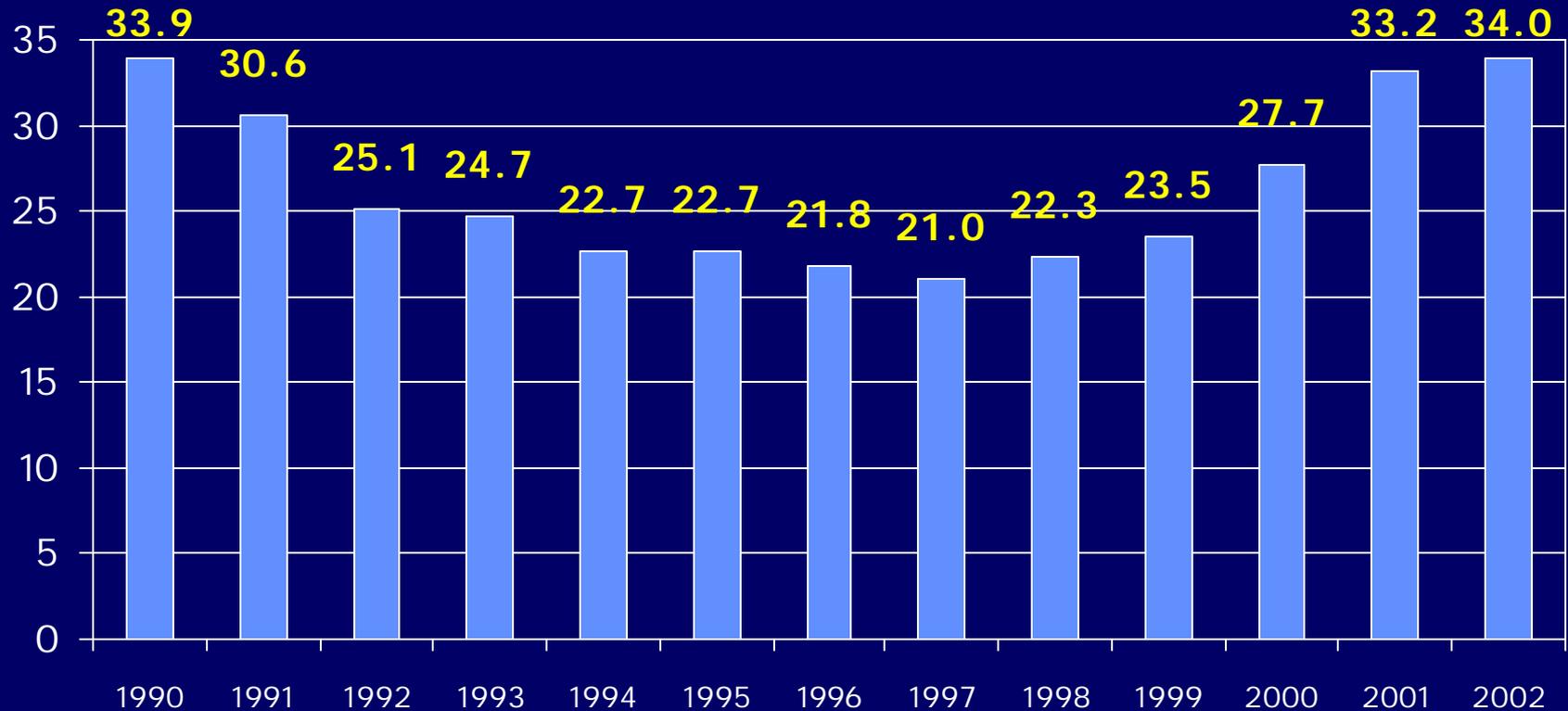


| Rate | Year | | | | | | |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003* |
| Motorcyclists Killed | 2,116 | 2,294 | 2,483 | 2,897 | 3,197 | 3,244 | 3,592 |
| /100M VMT | 20.99 | 22.31 | 23.46 | 27.67 | 33.17 | 33.96 | N/a |
| /100K Reg. Vehicles | 55.30 | 59.13 | 59.80 | 66.66 | 65.20 | 64.82 | N/a |
| *2003 VMT and registered vehicle data not available. | | | | | | | Source: FARS |

Long Term Trends

Fatality Rate per 100 Million VMT by Year

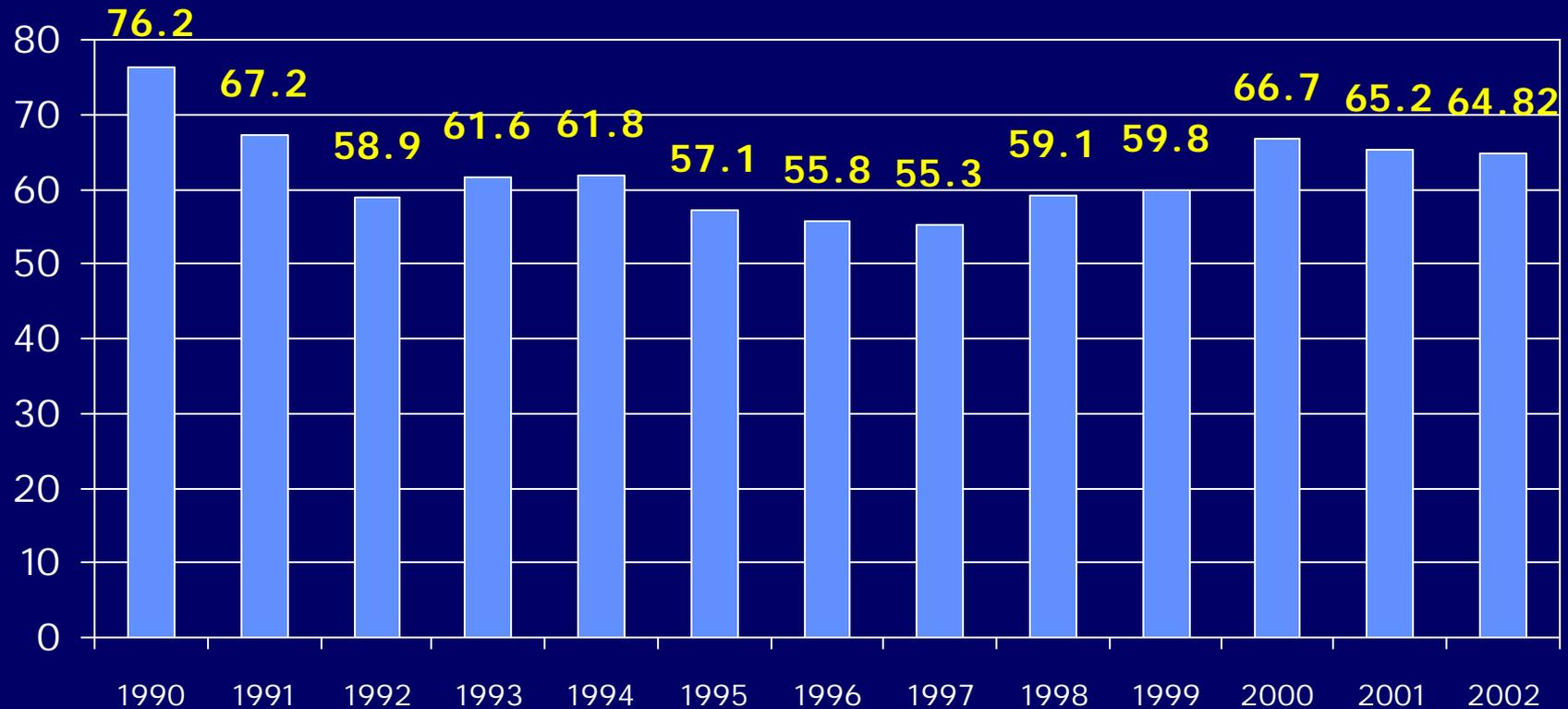
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Source: FARS/FHWA

Fatality Rate per 100,000 Registered Vehicles by Year

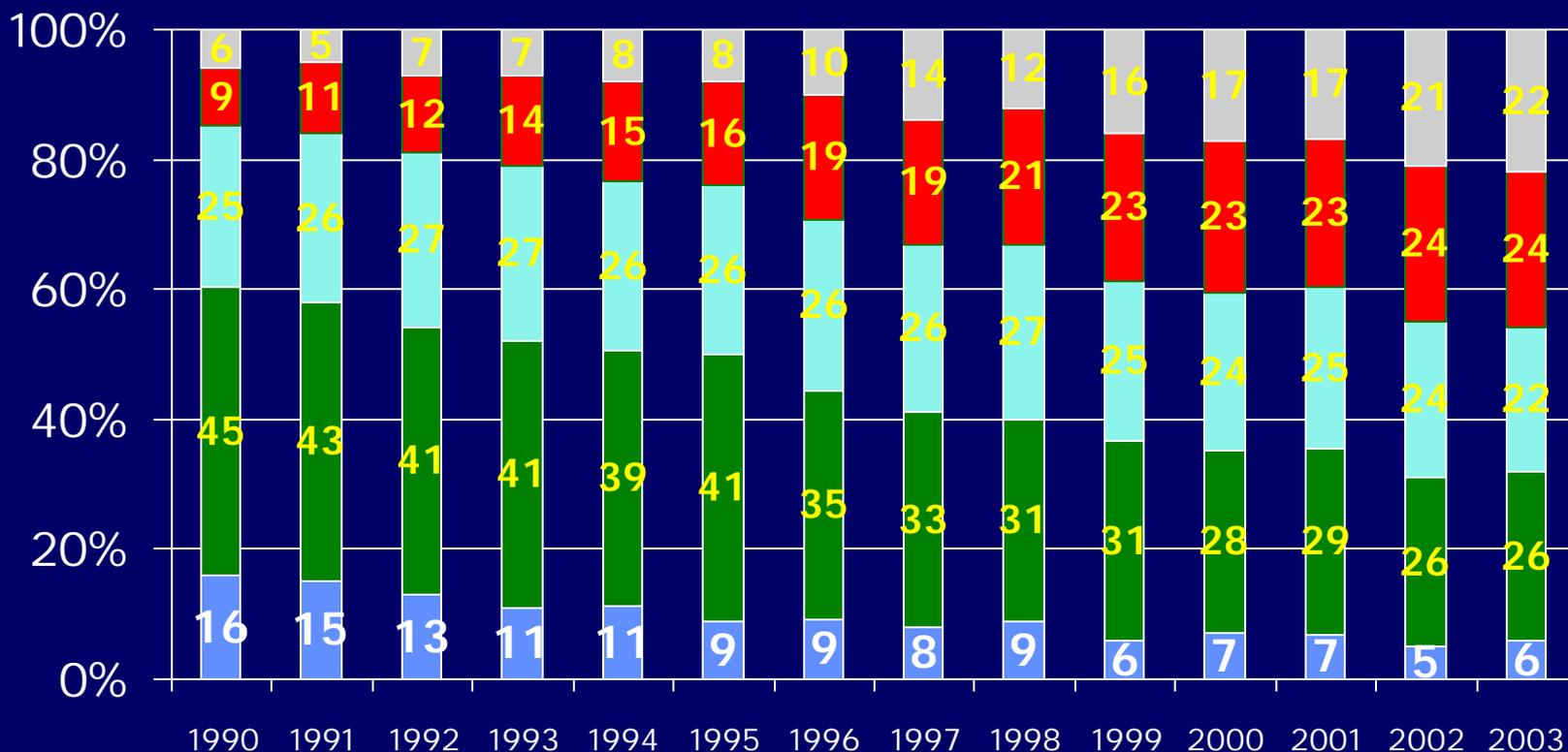
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Source: FARS/FHWA

Motorcyclists Killed (percent) by Age Group and Year

National Center for Statistics & Analysis

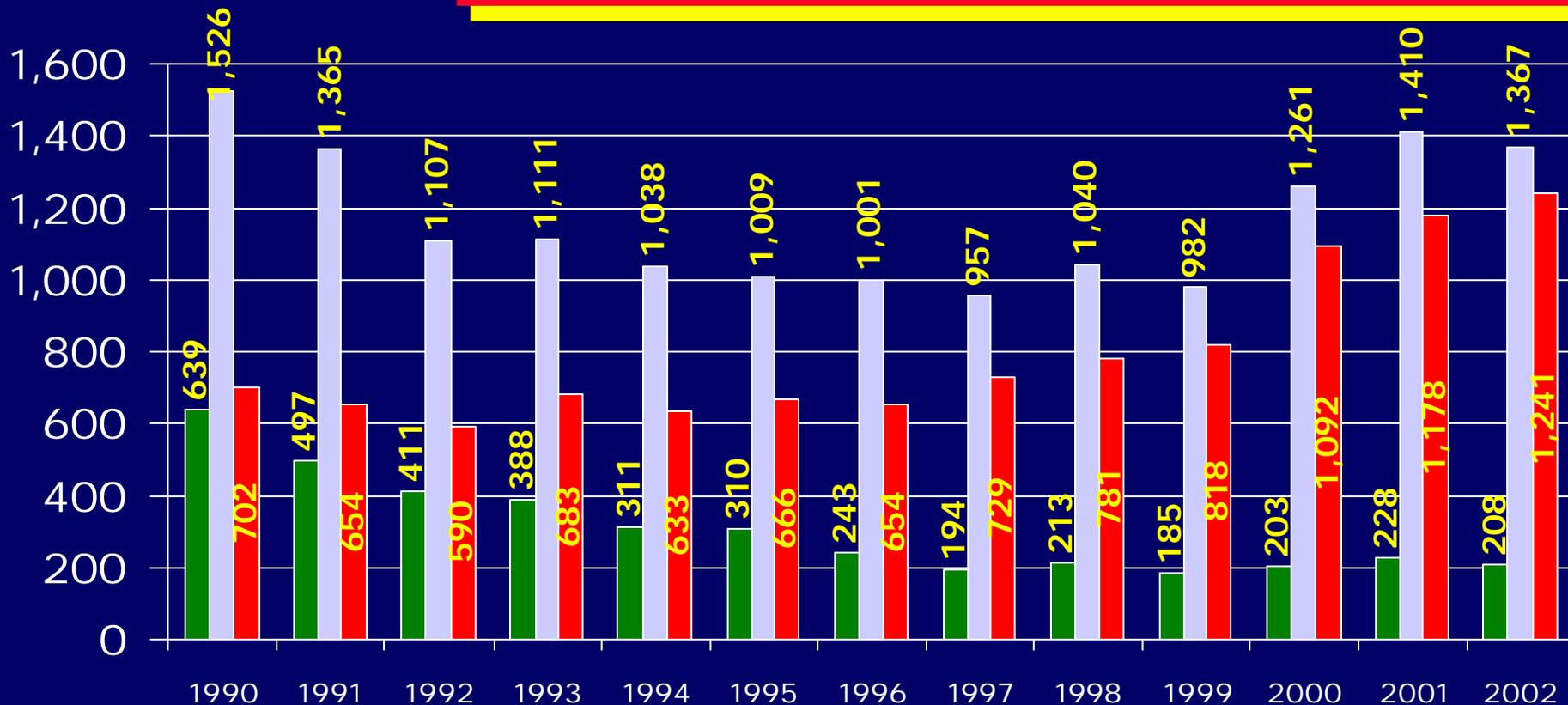


Source: FARS



Motorcyclists Killed* by Engine Size cc and Year

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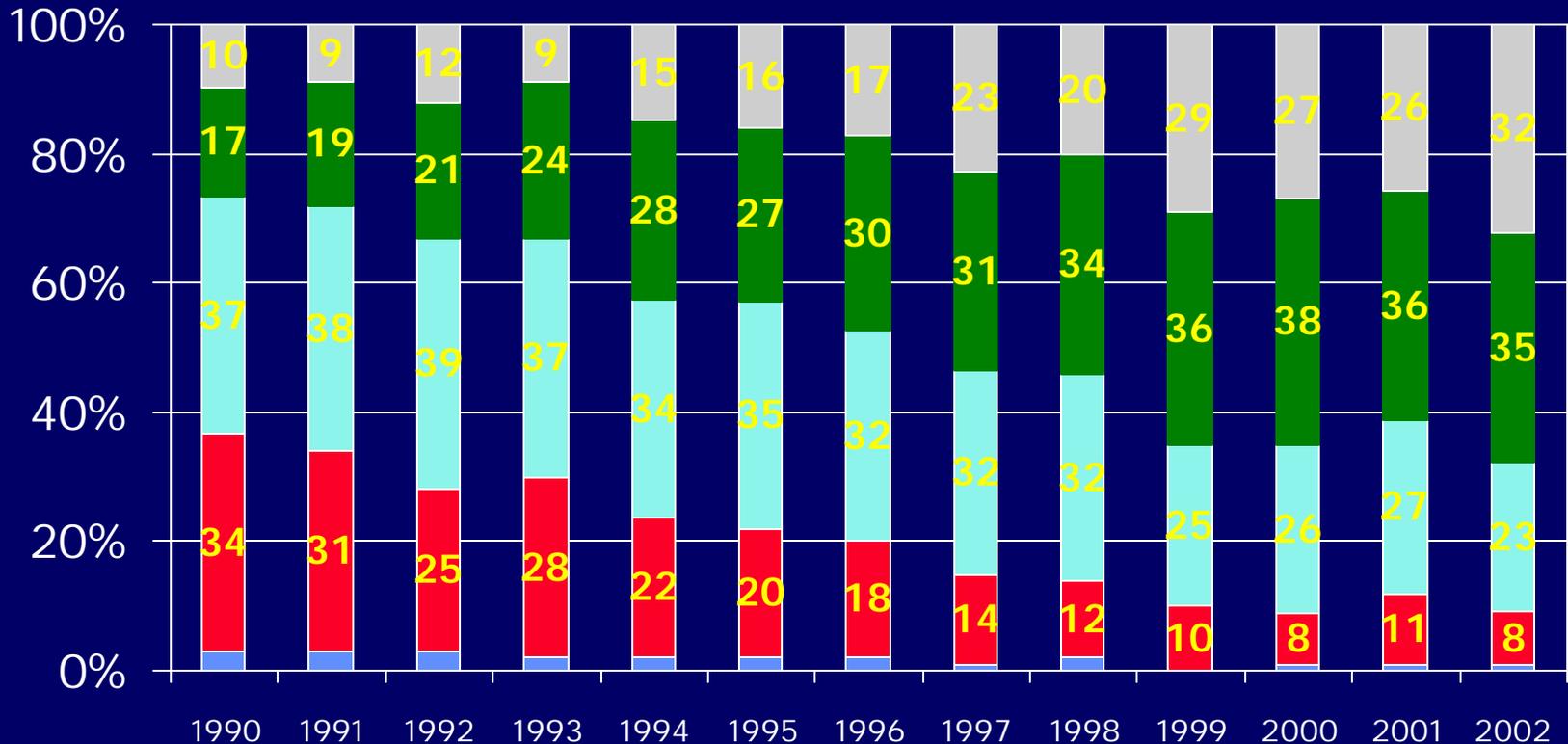
Source: FARS

■ Upto 500
 ■ 501-1,000
 ■ 1,001-1,500

*2003 data not available.

Motorcyclists Killed* (percent) on 1,001-1,500 cc Engine Size by Age Group and Year

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Source: FARS

*2003 data not available.



- Mean age of Motorcyclist killed is increasing
- Mean engine size of motorcycle involved in a fatal crash is increasing

Mean Age of Motorcyclist Killed* and Mean Engine Size Involved* in Fatal Crashes

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| Year | Mean Age | Mean Engine Size (cc) |
|------|----------|-----------------------|
| 1990 | 29.3 | 769 |
| 1991 | 29.6 | 786 |
| 1992 | 30.5 | 799 |
| 1993 | 31.3 | 820 |
| 1994 | 31.8 | 837 |
| 1995 | 32.1 | 842 |
| 1996 | 33.4 | 865 |
| 1997 | 34.8 | 899 |
| 1998 | 34.6 | 904 |
| 1999 | 36.5 | 922 |
| 2000 | 36.8 | 957 |
| 2001 | 36.3 | 958 |
| 2002 | 37.9 | 999 |

Source: FARS

*2003 data not available.

- **DOT HS 809 271 – Recent Trends in Fatal Motorcycle Crashes:** <http://www-nrd.nhtsa.dot.gov/pdf/nrd-30/NCSA/Rpts/2001/809-271.pdf>
- **DOT HS 809 360 – Fatal Single Vehicle Motorcycle Crashes:** <http://www-nrd.nhtsa.dot.gov/pdf/nrd-30/NCSA/Rpts/2001/809-360.pdf>
- **DOT HS 809 387 – Motorcyclist Fatalities in 2000:** <http://www-nrd.nhtsa.dot.gov/pdf/nrd-30/NCSA/RNotes/2001/809-387.pdf>
- **DOT HS 809 548 – Motorcyclist Fatalities in 2001:** <http://www-nrd.nhtsa.dot.gov/pdf/nrd-30/NCSA/RNotes/2003/809-548.pdf>
- **DOT HS 809 576 – Alcohol Involvement in Fatal Motorcycle Crashes:** <http://www-nrd.nhtsa.dot.gov/pdf/nrd-30/NCSA/RNotes/2003/809-576.pdf>
- **DOT HS 809 734 – Motorcycle Riders in Fatal Crashes – Crash Stats:** <http://www-nrd.nhtsa.dot.gov/pdf/nrd-30/NCSA/RNotes/2004/809734.pdf>

